LORSS Estuarine Performance Measures

- Mean Monthly Flows
  - Caloosahatchee: S-79
  - St. Lucie: Total Inflow
- Duration of High Flows
  - Caloosahatchee: 7-day moving average >4500 (based on impact to local oysters and seagrasses).
  - St. Lucie: 14-day moving average >3000 (based on impact to local oysters).
- Critical Period: March –June
  - Caloosahatchee: Mean Monthly Flows >2800
  - St. Lucie: Mean Monthly Flows >2000

Performance Measure

St. Lucie Estuary

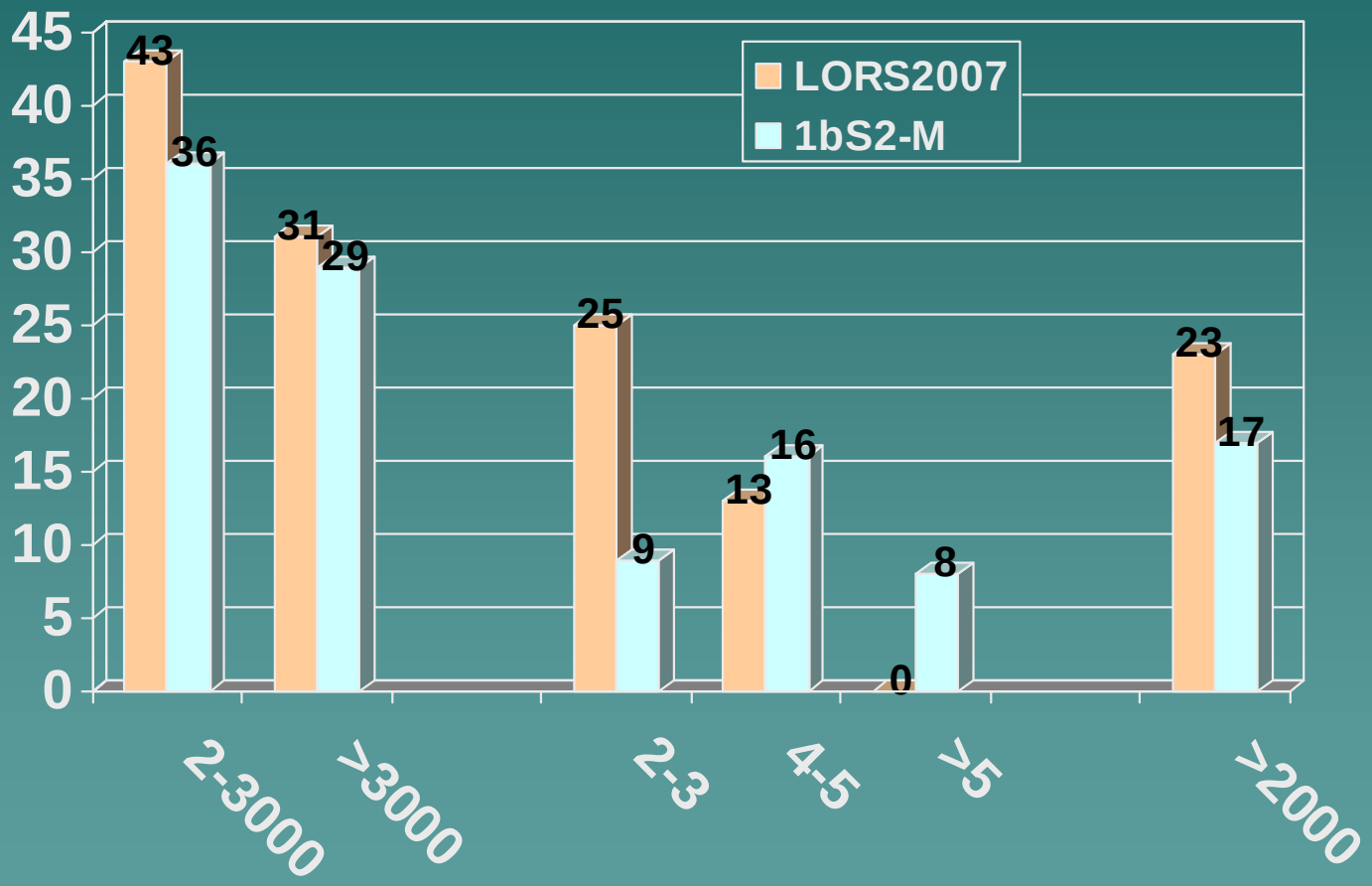
- 350 cfs: Mean monthly flow required to maintain upper limit of salinity envelope.
- 350- 2000 cfs: Mean monthly flow range that provides suitable salinity conditions for the development of important benthic communities (e.g. oysters and submerged aquatic vegetation).
- 2000 - 3000 cfs: Mean monthly flows above which freshwater conditions throughout the estuary cause adverse impacts to estuarine biota.
- >3000 cfs: Impacts downstream marine environments.

Performance Measure

Caloosahatchee Estuary

- 450 cfs: Mean monthly flow required to maintain low salinity zone in upper estuary.
- 450 - 2800 cfs: Mean monthly flow range that provides suitable salinity conditions for the development of important benthic communities (e.g. oysters and submerged aquatic vegetation).
- 2800- 4500 cfs: Mean monthly flows above which freshwater conditions throughout the estuary cause adverse impacts to estuarine biota.
- >4500 cfs: Impacts downstream marine environments.

St. Lucie Estuary



Caloosahatchee Estuary